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DES/CMW/atc
July 31, 2007

09 | 766538

PATENT APPLICATION

THE UNITED STATES PATENT AND TRADEMARK OFFICE

~~MYD~~
Vg

Patentees: Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb, David Knight and Scott Siegel

Issued: January 31, 2006

Patent No.: 6,991,791 B2

Title: ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN TUMOR NECROSIS FACTOR

| | |
|--|-------------------|
| CERTIFICATE OF MAILING OR TRANSMISSION | |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on: | |
| <u>8/14/07</u> | <u>Amy Comeau</u> |
| Date | Signature |
| <u>Amy Comeau</u> | |
| Typed or printed name of person signing certificate | |

**Certificate
of Correction**
AUG 20 2007

REQUEST FOR CERTIFICATE OF CORRECTION

Office of Publications
Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

08/16/2007 NNGUYEN2 00000048 6991791
01 FC:1811 100.00 OP

Sir:

Pursuant to 35 U.S.C. § 255, Patentees hereby request a Certificate of Correction be issued for the above-referenced U.S. Letters Patent for the following reason. A Certificate of Correction is enclosed herewith.

In the Assignee section on the front of the issued patent, "New York University School of Medicine" should be --New York University--.

A copy of the December 23, 1998 filing listing the Assignee in the parent Application No.: 09/133,119 as New York University is enclosed. In addition, a copy of the April 7, 1999 Notice of Recordation of Assignment Document is enclosed. The Assignment to New York University was recorded on December 28, 1998 at reel/frames: 9662/0984-0988. The Assignment was recorded before payment of the issue fee in the above-referenced patent.

The issue fee was paid on June 8, 2005. At the time of preparation of the issue fee transmittal, a clerical error occurred wherein New York University School of Medicine was

listed as an Assignee. Applicants are filing this certificate of correction to properly name New York University as the assignee.

Thus, the correct assignees for the above-referenced patent are New York University, New York, NY and Centocor, Inc., Malvern, PA.

Patentee agrees to pay the required fee. Enclosed is a check in the amount of \$100.00. Please charge any deficiency or credit any overpayment to Patentee's Attorney's Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Deirdre E. Sanders
Deirdre E. Sanders
Registration No.: 42,122
Telephone: (978) 341-0036
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated:

August 14, 2007

740890_1
DES/CMW/atc
July 31, 2007



PATENT APPLICATION
Attorney's Docket No.: 0975.1005-010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Date

Amy Comeau

Signature

Amy Comeau

Typed or printed name of person signing certificate

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By Deirdre E. Sanders
Deirdre E. Sanders
Registration No.: 42,122
Telephone: (978) 341-0036
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated:

August 14, 2007

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : **6,991,791 B2**

DATED : **January 31, 2006**

INVENTOR(S) : **Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb,
David Knight and Scott Siegel**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**On Page 1, please change “New York University School of Medicine” to --
New York University--**

MAILING ADDRESS OF SENDER:

021005

Hamilton, Brook, Smith & Reynolds, P.C.
530 Virginia Road, P.O. Box 9133
Concord, Massachusetts 01742-9133

PATENT NO. 6,991,791 B2

No. of add'l copies
@ 50¢ per page

→ -0-

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : **6,991,791 B2**
DATED : **January 31, 2006**
INVENTOR(S) : **Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb,
David Knight and Scott Siegel**

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PATENT NO. **6,991,791 B2**

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@ 50¢ per page

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APRIL 07, 1999

PTAS

HAMILTON BROOK SMITH & REYNOLDS, P.C.
DAVID E. BROOK, ESQ.
TWO MILITIA DRIVE
LEXINGTON, MA 02421-4799



100935182A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

COPY

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/28/1998

REEL/FRAME: 9662/0984
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
LE, JUNMING

DOC DATE: 11/30/1998

ASSIGNEE:
VILCEK, JAN

DOC DATE: 11/30/1998

ASSIGNEE:
NEW YORK UNIVERSITY
550 FIRST AVENUE
NEW YORK, NEW YORK 10016

SERIAL NUMBER: 08192861
PATENT NUMBER:

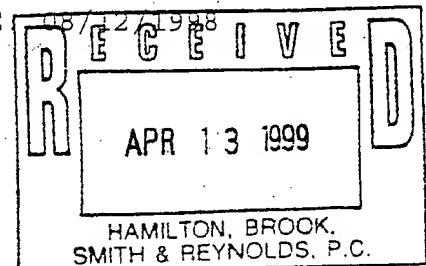
FILING DATE: 02/04/1994
ISSUE DATE:

SERIAL NUMBER: 08192093
PATENT NUMBER:

FILING DATE: 02/04/1994
ISSUE DATE:

SERIAL NUMBER: 09133119
PATENT NUMBER:

FILING DATE
ISSUE DATE:



9662/0984 PAGE 2

SERIAL NUMBER: 08570674
PATENT NUMBER:

FILING DATE: 12/11/1995
ISSUE DATE:

SERIAL NUMBER: 08192102
PATENT NUMBER: 5656272

FILING DATE: 02/04/1994
ISSUE DATE: 08/12/1997

SERIAL NUMBER: 08324799
PATENT NUMBER: 5698195

FILING DATE: 10/18/1994
ISSUE DATE: 12/16/1997

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

01-04-1999

Docket No.: See Schedule A attached

MFD
12/28/98

RECO



100935182

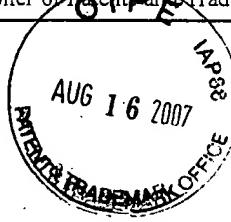
HEET

RECEIVED

To the Honorable Commissioner of Patent and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

Junming Le
 Jan Vilcek

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: November 30, 1998

2. Name and address of receiving party(ies)

UPR/FINANCE

Name: New York University

Internal Address: _____

Street Address: 550 First Avenue

City: New York State: NY ZIP: 10016

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/192,861
 08/192,093
 09/133,119
 08/570,674 (abandoned)

B. Patent No.(s)

5,656,272
 5,698,195

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David E. Brook, Esq

Internal Address: _____

Hamilton, Brook, Smith & Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington State: MA ZIP: 02421-4799

6. Total number of applications and patents involved: [6]

7. Total Fee (37 C.F.R. 3.41)..... \$ 240.00

Enclosed
 Authorized to charge any deficiencies or credit any overpayment to deposit account
 Authorized to be charged to deposit account

8. Deposit account number:

08-0380

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Carolyn S. Elmore

Name of Person Signing

Signature

12/22/98

Date

Total number of pages including cover sheet, attachments, and document: [9]

Multi-Joint

ASSIGNMENT

WHEREAS, we, Junming Le and Jan Vilcek, have, together with co-inventors Peter Daddona, John Ghrayeb, David M. Knight and Scott A. Seigel, invented improvements described in the United States Letters Patents and applications for United States Letters Patent attached hereto and made a part hereof as Schedule A (hereinafter "PATENTS AND APPLICATIONS"); and

WHEREAS, New York University (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of New York, and having a usual place of business at 550 First Avenue, New York, New York 10016 has acquired an interest therein in accordance with agreements duly entered into with us;

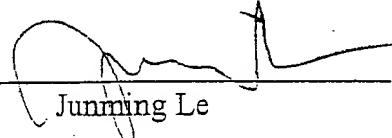
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said inventions as described in said PATENTS AND APPLICATIONS, together with the entire right, title and interest in and to said PATENTS AND APPLICATIONS and such Letters Patents as may issue on said applications; said inventions, said PATENTS AND APPLICATIONS, and such Letters Patents to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patents may be granted as fully and entirely as the same would have been held by us had these assignments and sales not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patents. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said inventions, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patents by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patents to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid inventions to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said inventions or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patents as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:



Junming Le

State/~~Commonwealth~~

of New York

County of New York

Then personally appeared before me the above-named Junming Le and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 30th day of November, 1998.



Maureen Valenti Notary Public
Maureen Valenti (print name)

My Commission expires 7/15/99

MAUREEN VALENTI
Notary Public State of New York
No. 01VA5014085
Qualified in Kings County
Commission Expires July 15, 1999

Inventor:

Jan Vilcek

State/Commonwealth

of New York

County of New York

Then personally appeared before me the above-named Jan Vilcek and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 30th day of November, 1998

Maureen Valenti Notary Public

(SEAL)

maureen Valenti (print name)

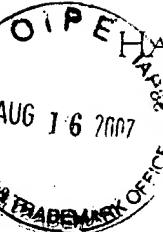
My Commission expires 7/15/99

MAUREEN VALENTI
Notary Public, State of New York
No. 01VA5014085
Qualified in Kings County
Commission Expires July 15, 1999

DAVID E. BROOK
JAMES M. SMITH
LEO R. REYNOLDS
PATRICIA GRANAHAN
JOHN L. DUPRE
DAVID J. BRODY
MARY LOU WAKIM
THOMAS O. HOOVER
ALICE O. CARROLL
N. SCOTT PIERCE
HELEN E. WENDLER
SUSAN G. L. GLOVSKY
DOREEN M. HOGLE
RICHARD W. WAGNER

GERALD M. BLUHM
RAYMOND I. BRUTTOMESSO, JR.
BARRY W. CHAPIN
ANNE J. COLLINS
ROBERT T. CONWAY
CAROL A. EGNER
ANTOINETTE G. GIUGLIANO
J. GRANT HUSTON
DAVID E. HUANG
RODNEY D. JOHNSON
HELEN LEE
ELIZABETH W. MATA
TIMOTHY J. MEAGHER
NINA L. PEARLMUTTER
DEIRDRE E. SANDERS
ROBERT J. SAYRE
LISA M. TREANNIE
DARRELL L. WONG
* NOT ADMITTED IN MASS.

AUG 16 2007



HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

TWO MILITIA DRIVE · LEXINGTON, MASSACHUSETTS 02421
TELEPHONE: (781) 861-6240 · FACSIMILE: (781) 861-9540

PATENTS, TRADEMARKS, COPYRIGHTS AND LITIGATION

COPY

MUNROE H. HAMILTON
(1906-1984)

CAROLYN S. ELMORE
SUPERVISING PATENT AGENT

OF COUNSEL

RICHARD A. WISE
DAVID J. THIBODEAU, JR.

PATENT AGENTS

SUSAN M. ABELLERA
ERIK L. ENCE
EDGAR W. HARLAN
JOYCE C. MILLER

TECHNICAL SPECIALISTS

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JEFFREY J. DUQUETTE
STEPHEN J. GAUDET
MARY K. MURRAY
ROBERT H. UNDERWOOD

JOHN W. MEDBURY
ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE
ADMINISTRATOR OF PATENT
AND TRADEMARK PRACTICE

December 23, 1998

Box Assignments

Assistant Commissioner for Patents
Washington, D.C. 20231

Re: Docket No.: NYU93-01M
Patent No.: 5,656,272 Issue Date: 08/12/97
For: "Methods of Treating TNF- α Mediated Crohn's Disease Using Chimeric Anti-TNF Antibodies"

Docket No.: NYU93-01M4
Patent No.: 5,698,195 Issue Date: 12/16/97
For: "Methods of Treating Rheumatoid Arthritis Using Chimeric Anti-TNF Antibodies"

Docket No.: NYU93-01M2
Serial No.: 08/192,861 Filed: 02/04/94
For: "Methods of Treating TNF- α -Mediated Disease Using Chimeric Anti-TNF Antibodies"

Docket No.: NYU93-01M3
Serial No.: 08/192,093 Filed: 02/04/94
For: "Anti-TNF α Antibodies and Assays Employing Anti-TNF α Antibodies"

Docket No.: NYU93-01M4AZ
Serial No.: 09/133,119 Filed: 08/12/98
For: "Anti-TNF Antibodies and Peptides of Human Tumor Necrosis Factor"

Docket No.: NYU93-01M4A (Abandoned)
Serial No.: 08/570,674 Filed: 12/11/95
For: "Anti-TNF Antibodies and Peptides of Human Tumor Necrosis Factor"

Dear Sir:

It has come to our attention that Assignments for the above-identified patents and applications, recorded with the Assignment Branch to the Patent and Trademark Office, incorrectly designate the

Assignee's name as New York Medical Center. A newly-executed Assignment correctly designating the name of the Assignee as New York University, with an attached Schedule A listing for the above-identified patents and applications, is enclosed with a check for \$240.00, and authorization is hereby granted to charge any additional fees due to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 

Carolyn S. Elmore

Registration No.: 37,567

Tel.: (781) 861-6240

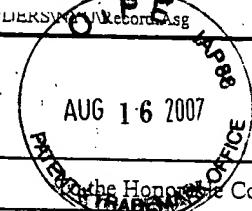
Fax: (781) 861-9540

Lexington, Massachusetts 02421-4799

Date: 12/22/98

K:\DSANDERS\NYU\Assign.LT1

**R ORDINATION FORM COVER SHEET
PATENTS ONLY**



AUG 16 2007

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

1. Junming Le
2. Jan Vilcek

Additional name(s) of conveying party(ies) attached? Yes No**3. Nature of conveyance:**

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: November 30, 1998

2. Name and address of receiving party(ies)

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Internal Address: _____

Street Address: 550 First Avenue

City: New York State: NY ZIP: 10016

Additional name(s) & address(es) attached? Yes No**4. Application number(s) or patent number(s):**

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08/192,093
09/133,119
08/570,674 (abandoned)

B. Patent No.(s)

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5,698,195

Additional numbers attached? Yes No**5. Name and address of party to whom correspondence concerning document should be mailed:**

Name: David E. Brook, Esq

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Hamilton, Brook, Smith & Reynolds, P.C.

6. Total number of applications and patents involved: [6]**7. Total Fee (37 C.F.R. 3.41)..... \$ 240.00** Enclosed Authorized to charge any deficiencies or credit any overpayment to deposit account Authorized to be charged to deposit account**8. Deposit account number:**

08-0380

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE**9. Statement and signature.***To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Carolyn S. Elmore

Name of Person Signing

Signature

12/22/98
Date

Total number of pages including cover sheet, attachments, and document: [9]

Multi-Joint

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WHEREAS, New York University (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of New York, and having a usual place of business at 550 First Avenue, New York, New York 10016 has acquired an interest therein in accordance with agreements duly entered into with us;

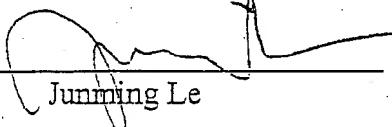
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said inventions as described in said PATENTS AND APPLICATIONS, together with the entire right, title and interest in and to said PATENTS AND APPLICATIONS and such Letters Patents as may issue on said applications; said inventions, said PATENTS AND APPLICATIONS, and such Letters Patents to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patents may be granted as fully and entirely as the same would have been held by us had these assignments and sales not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patents. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said inventions, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patents by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patents to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid inventions to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said inventions or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patents as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

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Inventor:


Junming Le

State/Commonwealth

of New York

County of New York

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Maureen Valenti Notary Public

Maureen Valenti (print name)

My Commission expires 7/15/99

MAUREEN VALENTI
Notary Public State of New York
No. 01VABG14085
Qualified in Kings County 99
Commission Expires July 15, 1999

-3-

Inventor:

Jan Vilcek

Jan Vilcek

State/Commonwealth

of New York

County of New York

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Maureen Valenti Notary Public

(SEAL)

maureen Valenti (print name)

My Commission expires 7/15/99

MAUREEN VALENTI
Notary Public, State of New York
No. 01VA5014085
Qualified in Kings County
Commission Expires July 15, 1999

ASSIGNMENT TO NEW YORK UNIVERSITY
SCHEDULE A

UNITED STATES PATENTS

| <u>File Number</u> | <u>Patent No.</u> | <u>Issue Date</u> | <u>Title</u> |
|--------------------|-------------------|-------------------|--|
| NYU93-01M | 5,656,272 | 08/12/97 | Methods of Treating TNF- α Mediated Crohn's Disease Using Chimeric Anti-TNF Antibodies |
| NYU93-01M4 | 5,698,195 | 12/16/97 | |

UNITED STATES PATENT APPLICATIONS

| | | | |
|--------------|------------|----------|---|
| NYU93-01M2 | 08/192,861 | 02/04/94 | Methods of Treating TNF- α -Mediated Disease Using Chimeric Anti-TNF Antibodies |
| NYU93-01M3 | 08/192,093 | 02/04/94 | Anti-TNF α Antibodies and Assays Employing Anti-TNF α Antibodies |
| NYU93-01M4AZ | 09/133,119 | 08/12/98 | Anti-TNF Antibodies and Peptides of Human Tumor Necrosis Factor |

ABANDONED APPLICATION

| | | | |
|-------------|------------|----------|--|
| NYU93-01M4A | 08/570,674 | 12/11/95 | Anti-TNF Antibodies and Peptides of Human Tumor Necrosis Factor |
|-------------|------------|----------|--|